Pharmaceutical company request for oral testimony at the October 18, 2019 Idaho Medicaid Pharmacy & Therapeutics Committee meeting.

Submission #_01_		
Date request was received:10/11/2019		
Drug: Austedo		
Therapeutic Drug Class:Movement Disorders		
Pharmaceutical Company:TEVA		
This request has been reviewed and denied for oral		
testimony.		

Tami Eide, Pharm.D., BCPS Medicaid Pharmacy Program Manager Idaho Department of Health and Welfare Tamara.Eide@dhw.idaho.gov

My email has changed to <u>Tamara.Eide@dhw.idaho.gov</u> – please update your contacts as appropriate.

From: Maria Agapova

Sent: Friday, October 11, 2019 10:30 AM

Subject: Request to provide testimony at the November 15th P&T Committee Meeting [External

Email]

Hello Tami,

Please find attached a submission of additional clinical information in support of the Teva's movement disorder product, Austedo (Deutetrabenazine). I would like to request the opportunity to present this information at the upcoming P&T committee meeting on November 15, 2019.

Should you have any questions please do not hesitate to contact me. I am grateful for the opportunity to exchange scientific content with the committee.

Thank you for your time and consideration.

Best regards,



Maria Agapova, MSc, PhD Senior Medical Outcomes Liaison, Field Medical Affairs This message is intended solely for the designated recipient(s). It may contain confidential or proprietary information and may be subject to attorney-client privilege or other confidentiality protections. If you are not a designated recipient you may not review, copy or distribute this message. If you receive this in error, please notify the sender by reply e-mail and delete this message. Thank you.

Public Testimony for (Idaho) Medicaid-Austedo™ (deutetrabenazine)

Tania	Public Testimony for (Idaho) Medicaid-Austedo™ (deutetrabenazine)	
Topic	Austedo (deutetrabenazine)	
Introduction	Good day, my name is Maria Agapova. I am a Medical Outcomes Liaison with Teva Pharmaceuticals.	
Burden of Disease	 Tardive dyskinesia (TD) is a delayed-onset and potentially irreversible hyperkinetic movement disorder, which is caused by long-term exposure to neuroleptic agents (ie, dopamine receptor blocking agents (DRBAs)), most notably antipsychotics (FGAs and SGAs)^{9,10,11} 	
	 Huntington's Disease (HD) is an inherited neurological disorder characterized by a triad of symptoms including, cognitive decline, psychiatric symptoms and movement disorders ¹², such as hyperkinetic movements known as chorea. 	
Please refer to the full prescribing information for Austedo.		
Indication	 Austedo is the only FDA approved therapy for both the treatment of tardive dyskinesia (TD) and chorea associated with Huntington's disease¹, (granted orphan drug designation for HD-chorea)⁴ 	
Structure and MOA	 Austedo is the first FDA approved therapy using deuterated technology 	
	 Austedo, which leverages Teva's deuterium technology, enables a differentiated pharmacokinetic profile compared with tetra benazine. 	
	 By reducing mean peak plasma concentrations (Cmax) while maintaining comparable drug exposure, there is the potential for decreased dosing and dosing frequency. 	
	 The mechanism of action is believed to be related to its effect as a reversible modulator of monoamines (such as dopamine, serotonin, norepinephrine, and histamine) from nerve terminals, resulting in decreased uptake of monoamines into synaptic vesicles and depletion of monoamine stores.¹ 	
	 A boxed warning exists for the use of Austedo specifically in patients with Huntington's disease.¹ 	
Warnings/ Contraindicati	 This warning is not associated with Tardive Dyskinesia patients using Austedo. 	
ons	 Please refer to the prescribing information for additional information regarding the boxed warning and complete safety information. 	
	 Austedo provides flexible dosing options with 6mg, 9mg, and 12mg oral tablets 	
Dosingand Administration	 In an analysis based on real world data, the median (mean) daily dose of Austedo was determined to be 24 mg and 36 mg (27.6 mg & 33.7 mg) in TD and HD patients, respectively.⁷ 	
	 According to CMS Utilization Data 2Q2018-1Q2019, the average dose of Austedo used was 22 mg/day (30 daymonth) 18 	
Clinical trial experience <i>Exposure</i>	The efficacy for Austedo was established in three 12-week, randomized, double-blind, placebo-controlled, multi-center trials (FIRST-HD, ARM-TD and AIM-TD) ^{2,5,8} conducted in 6 05 ambulatory patients (90 HD & 415 TD). This information is a vailable in the PI. Please see pooled	
,	data and long-term data below.	
ARM-TD and	 In a pooled analysis of Austedo-treated patients in both pivotal trials, Austedo was associated with significant reduction in AIMS score and significantly greater attainment of treatment success compared with placebo¹⁴⁻¹⁶ 	
	 The reduction in AIMS score was significantly greater among pooled Austedo-treated patients from AIM-TD (24 mg/day and 36 mg/day doses) and ARM-TD than among pooled placebo-treated patients (deutetra benazine -3.3 v. placebo -1.5, P<0.001)¹⁴ 	
AIM-TD Pooled Data	 The percentage of patients attaining CGIC treatment success was significantly greater a mong pooled Austedo-treated patients than a mong those who received placebo (OR 2.12, P=0.005)¹⁵ 	
	 The percentage of patients attaining PGIC treatment success was significantly greater a mong pooled Austedo-treated patients than a mong those who received placebo (OR 1.81, P=0.026)¹⁶ 	
	 Rates of overall AEs, study discontinuations, dose reductions, and dose suspensions occurred at similar low rates between the deutetra benazine and placebo groups 14-16 	
	 A combined number of 423 total patients (304 RIM-TD and 119 ARC-HD) enrolled in their respective extension studies.^{3,6} 	
Long-term Safety	 Overall, the safety profile of long-term Austedo treatment is consistent with that reported in the parent studies, indicating no new safety signals with 54 weeks of treatment (ARC-HD) in HD patients⁶ In TD patients up to 145 weeks of treatment, exposure-adjusted incidence rates (EAIRs) of AEs were 	
	comparable to or lower than those observed with short-term Austedo and placebo treatment. 17	

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Ongoing 3-year Open-Label Extension study to evaluate the long-term safety and efficacy of Austedo in patients with TD. As of July 2018, 78 participants completed the study. Interim a nalysis up to week 145.
Change in AIMS score from baseline decreased over time in patients remaining in the study. Mean
(SE) change in AIM score from baseline was -7.0 (0.57) at week 145.
Three-quarters of all patients experienced a ≥50% improvement in AIMS score. >80% of patients
were a treatment success based on the CGIC score.
Evaluated safety, tolerability and pharmacokinetics of Austedo in patients switching from tetra benazine to Austedo, as well as safety and tolerability of long-term treatment with Austedo.
119 patients (n=82, Rollover cohort; n=37, Switch cohort) were enrolled and 98 patients completed 54 weeks of Austedo treatment.
The EAIRs of patients reporting any AEs, serious AEs and AEs leading to withdrawal were similar between the rollover and switch cohorts. EAIRs were smiliar to the rates observed in the Austedo and placebo groups in First-HD.
At Week 54, Total Maximal Chorea Score (TMC) was reduced by 4.1 and 3.0 units in the Rollover and Switch cohorts, respectively.
The safety and efficacy of Austedo is currently being investigated in Tourette Syndrome patients in 3 phase III randomized controlled trials. (NCTO3452943, NCTO3571256, NCTO3567291)
The safety and efficacy of Austedo is currently being investigated for treatment of dyskinesia in cerebral palsy in children and adolescents in a phase III randomized controlled trial. (NCT03813238)
Due to the relative lack of FDA approved treatments available to treat tardive dyskinesia or chorea in Huntington's Disease, I ask the members of the committee to consider the data that I have presented and allow for TD and HD patients in the state of Idaho to have access to Austedo.
nces:
1. Austedo [package insert] North Wales, PA:Teva Pharmaceuticals USA, Inc; July 2019
 Adstead [package insert] Not the Wales, PA. Teva Pharmaceuticals 05A, Inc., July 2019. Anders on KE et al. Deutetra benazine for treatment of involuntary movements in patients with tardive dyskinesia (AIM-TD): a double-blind, randomised, placebo-controlled, phase 3 trial.Lancet Psychiatry. 2017 Aug;4(8):595-604
3. Anderson KE, et al. Deutetra benazine for the treatment of tardive dyskinesia: results from an open-label, long-term study. Poster presented at: The American Psychiatric Association 2017 Annual Meeting; May 20-14, 2017; San Diego, CA. P7-009.
4. Teva Media Latest News
http://www.tevapharm.com/news/teva announces fda approval of austedo deutetrabenazi ne tablets for the treatment of chorea associated with huntington s disease 04 17.aspx Published April 3, 2017. Accessed May 8, 2017.
5. Huntington Study Group, Effect of Deutetra benazine on Chorea Among Patients With
Huntington Disease: A Randomized Clinical Trial. JAMA. 2016 Jul 5;316(1):40-50
6. Frank S et al. The long-term's afety of deutetrabenazine for chorea in Huntington Disease: updated safety results from the ARC-HD trial. Poster presented at: The International Congress of Parkinson's Disease and Movement Disorders; June 4-8, 2017; Vancouver, BC.
 Teva Data on File as of February 2018; Data provided by Teva Shared Solutions via IQVIA. N=1641.
8. Fernandez HH et al. Randomized controlled trial of deutetrabenazine for tardive dyskinesia: The ARM-TD study. Neurology. 2017 May 23;88(21):2003-2010
9. Kouzam HR. Identification and management of tardive dyskinesia: A case series and literature review. Postgrad Med. J. 2015;127(7):726-37.
10. Lerner PP et al. Tardive dyskinesia (syndrome): Current concept and modern approaches to its management. Psychiatry Clin Neurosci. 2015;69(6):321-34.
11. Waln O et al. An update on tardive dyskinesia: from phenomenology to treatment. Tremor Other Hyperkinet Mov (N.Y.). 2013;3.
12. Jankovic, et al. Chorea associated with Huntington's disease: to treat or not to treat? 2014;29:1414-1418

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- 13. Auspex Pharmaceuticals Inc. Securities and Exchange Commission Form S-1 Registration Statement. 2013.
- 14. Fernandez et al. Int Congress Parkinson's Dis and Mov Disord [Abstract #412]. 2017.
- 15. Fernandez et al. Int Congress Parkinson's Dis and Mov Disord [Abstract #404]. 2017
- 16. Fernandez et al. Int Congress Parkinson's Dis and Mov Disord [Abstract #407]. 2017
- 17. Hauser Het al. Long-Term Treatment With Deutetra benazine Is Associated With Continued Improvement in Tardive Dyskinesia (TD): Results From an Open-Label Extension Study. Presented at The American Academy of Neurology 2019 Annual Meeting. May 4–10, 2019, Philadelphia, Pennsylvania, USA
- 18. Teva Data on File, based on CMS utilization data 2Q2018-1Q2019.